BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Road and Drains at Vinayakanagara 3rd Cross Road in Ward No. 05 Byatarayanapura Sub Division

									Estimate Cost Rs.	1000000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount	
1	KSHRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. No. 141/ Item No. 19.1/ PWD SR 2016-17	Cum								
	Desilting of Dains									
			2	178.00	0.40	0.30	42.72			
	Culverts		3	6.20	2.10	1.20	46.87			
							89.59	86.92	**7787.00**	
	Basic Rate	82.00								
	Area Weightage @ 6%	4.92								
	Total	**86.92**								
2	Removing B.S Slab of Drain and stacking Page No. 25/ Item No. 5.32/ PWD SR 2016-17	Sqm								
	Agrahara layout 7th Cross		2	178.00	1.65		587.40			
	Deduct 25% Missing Slabs						146.85			
							440.55	65.72	**28953.00**	
	Basic Rate	62.00								
	Area Weightage @ 6%	3.72								
	Total	**65.72**								
3	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25/ Item No. 5.33/ PWD SR 2016-17	Sqm								
			Qty Vide Item No.3				440.55			
							440.55	80.56	**35491.00**	
	Basic Rate	76.00								
	Area Weightage @ 6%	4.56								
	Total	**80.56**								
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2016-17	**Sqm**								
	For Missing Slabs						146.85			
							146.85	665.68	**97755.00**	
	Basic Rate	628.00								
	Area Weightage @ 6%	37.68								
	Total	**665.68**								

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	Cum							
	For Culverts		3	6.20	2.10	0.15	6.03		
							6.03	5159.02	**31093.00**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2016-17	cum							
	Culverts		3X2	6.20	0.60	0.50	11.16		
							11.16	4438.22	**49531.00**
	Basic Rate	4187.00							
	Area Weightage @ 6%	251.22							
	Total	**4438.22**							
	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2016-17	Sqm							
	Culverts		3X2	6.20	0.50	0.45	8.37		
							8.37	**5305.30**	**44405.00**
	Basic Rate	5005.00							
	Area Weightage @ 6%	300.30							
	Total	**5305.30**							
	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2016-17	Sqm							
	For Culverts		3	6.20	0.60		11.16		
	For Sides		3X2	6.20	0.23		8.56		
			3X2	1.65	0.23		2.28		

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
						21.99	**271.36**	**5968.00**
Basic Rate	256.00							
Area Weightage @ 6%	15.36							
Total	**271.36**							
Providing and laying in plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.44cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS Vol.II/F No. 13/ Item No. 4.7/ PWD SR 2016-17	**cum**							
Culverts		3X2	6.20	0.50	0.15	2.79		
Vent Bed		3	6.20	0.60	0.15	1.67		
						4.46	5598.92	**24994.00**
Basic Rate	5282.00							
Area Weightage @ 6%	316.92							
Total	**5598.92**							
15.1.3: Providing FLush pointing to stone masonry with cement mortar 1:3 12 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2016-17	Sqm							
Culverts		3X2	6.20		0.50	18.60		
						18.60	102.82	**1912.00**
Basic Rate	97.00							
Area Weightage @ 6%	5.82							
Total	**102.82**							
4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastisizre @ 3lts conforming to BS5075-1982Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, arch, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.6, No. KBS Vol.II/F No. 13/ Item No. 4.11/ PWD SR 2016-17	**Cum**							
Culverts		3	6.20	1.80	0.23	7.70		
						7.70	6371.66	**49064.00**
Basic Rate	6011.00							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Area Weightage @ 6%	360.66							
Total	**6371.66**							
4.6.2:providing T.M.T steel for R.C.C work including cutting, bending, hooking, lapping and / or welding required, tying with binding wire to the adjoining members necessary complete as per design and wastage shall not be paid) cost pf materials, of machinery complete as per Specification No. KBS 4.6.3 Item No. 4.46.2/ PWD SR	Qtl							
		0.090	7.70			**0.69**	64243.42	**44523.00**
Basic Rate	60607.00							
Area Weightage @ 6%	3636.42							
Total	**64243.42**							
8400-17: Providing, laying and compacting graded stones to wet mix macadam including premixing the with water at OMC in mechanical carriage of mixed method of tipper laying in uniform layers with paver in course on well prepared surface consolidating with vibratory roller to the desired density complete as per MORTH specification NO. Item No. 20.18/ PWD SR	Cum							
1st Cross		1	178.00	5.50	0.20	195.80		
						195.80	1768.08	**346190.00**
Basic Rate	1668.00							
Area Weightage @ 6%	100.08							
Total	**1768.08**							
300-4: providing and applying from 7.5 to 9.8 kg and 9.8 to per 10 sqm for surfaces of low and respectively over prepared granular base with cut bank M.C- bitumen mixed with diesel at per 10 sqm heated in bitumen boiler set (excluding cleaning of including cost of all materials, of machineries complete as Do- Medium Porosity 5, No. 157/ Item No. 21.5/	Sqm							
1st Cross		1	178.00	5.50		979.00		
						979.00	59.36	**58113.00**
Basic Rate	56.00							
Area Weightage @ 6%	3.36							
Total	**59.36**							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Providing and laying semi bituminous concrete 25mm thick with batch type HMP producing an output of 75 tonnes per hour using aggregates of specified grading, with bituminous binder at 4.5 to and filler, transporting the hot mix laying with a hydrostatic paver with sensor control to the required level and alignment, rolling with vibratory and tandem roller the desired compaction as per specifications clause No. 500.8 in all respects as per P. No. 159/ Item No. 21.20.1/ 2016-17	Cum							
Layout 1st Cross		1	178.00	5.50	0.025	24.48		
						24.48	6429.96	**157373.00**
Basic Rate	6066.00							
Area Weightage @ 6%	363.96							
Total	**6429.96**							
Disposal of Debris shall be payable rates by Mechanical means loading and unloading. From 0.00 Page No.123,	Cum							
		Qty. Vide Item No. 1				**89.59**		
						89.59	73.12	**6551.00**
Lead Charges Upto 2.00 Kms	5.12							
2015-16 (P.118/I.17.1) For loading	68.00							
Total	**73.12**							
						Grand Total		**989703.00**
Third Party Inspection Charges								**9897.00**
Miscellaneous Charges	L/S							**400.00**
								1000000.00

has been inspected and the work is found necessary.
is prepared as per PWD SR of 2016-17
were made in this estimate are necessary and adequate.
come under B.B.M.P. limits.

Assistant Engineer
Ward No. 05 (Jakkur)

Executive Engineer
Byatarayanapura Division

Assistant Executive Engineer
Byatarayanapura Sub Division
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TECHNICAL SANCTION
Accorded For Rs. Ten lakhs only
Head of A/c P-1771
Div. Ref. No. 53/18-19 Date. 3/09/18

AE 3/09

EE(BTP) 3/09